

INFORMATION DISCLOSURE  
STATEMENT BY APPLICATION  
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ATTY. DOCKET NO.  
**P07 41795**

SERIAL NO.  
**09/292,723**

APPLICANT **Carl W. Radhead, Robert Winstan, Phillip Keffler and Carsten Müller**

FILING DATE  
**April 15, 1999**

GROUP  
**1632**

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
<u>JDM</u>		4	6	6	3	2	8	1	05/05/87	Gillies et al.	—	—	
		4	7	6	2	7	0	1	08/09/88	Horan et al.	—	RECEIVED	
		4	8	7	0	0	0	9	09/26/89	Evans et al.	—	JUL 20 1998	
		4	9	5	9	3	1	3	09/25/90	Taketo	—	TECH CENTER	1600/2900
		5	1	7	5	3	8	4	12/29/92	Krimpenfort et al.	—	—	
		5	2	0	6	1	4	3	04/27/93	Horan et al.	—	—	
		5	3	7	5	6	0	6	12/27/94	Slezak et al.	—	—	
		5	4	2	2	2	6	6	06/06/95	Cormier et al.	—	—	
		5	4	3	4	3	4	0	07/18/95	Krimpenfort et al.	—	—	
		5	4	9	1	0	8	4	02/13/96	Chalfie et al.	—	—	
		5	5	2	1	2	9	1	05/28/96	Curiel et al.	—	—	

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NUMBER		DATE	COUNTRY	CLASS	Translation	
							YES	NO
<u>JDM</u>		WO 90/08192	07/26/90	EPO	—	—		
		WO 92/03459	03/05/92	PCT	—	—		
		WO 93/11228	06/10/93	PCT	—	—		
		WO 95/02041	01/19/95	PCT	—	—		
		EP 0 867 114 A1	09/30/98	EPO	—	—		

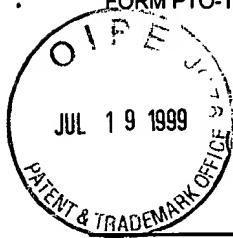
**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

<u>JDM</u>	1.	Avarbock, Mary R., et al., Reconstitution of spermatogenesis from frozen spermatogonial stem cells, <i>Nature Medicine</i> , Vol. 2, No. 6, pp. 693-696, (June, 1996).
	2.	Baranov, V. S., et al., <i>The possibility of the incorporation of macromolecules, including exogenous DNA, into the germ cells of male mice. The liposome method and Ca-P coprecipitation method</i> , <i>Tsitol Genet</i> , Vol. 24, No. 2, pp. 52-55 (Mar 1990). ABSTRACT ONLY

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*DW/M* DATE CONSIDERED *4/23/01 12/27/01*

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FORM PTO-1449 (Modified)

INFORMATION DISCLOSURE  
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ATTY. DOCKET NO.  
P07 41795SERIAL NO.  
09/292,723APPLICANT Carol W. Readh ad, R bert Winston,  
Phillip K effler and Carst n MüllerFILING DATE  
April 15, 1999GROUP  
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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
JDW	5	5	3	2	1	4	3	07/02/96	Grosveld et al.	—	RECEIVED	
	5	5	4	7	9	3	2	08/20/96	Curiel et al.	—	RECEIVED	
	5	5	4	3	2	9	1	08/06/96	Keyomarsi et al.	—	JUL 20 1998	
	5	5	5	6	9	5	4	09/17/96	Burn et al.	—	TECH CENTER 1600/2900	
	5	5	9	1	6	2	5	01/07/97	Gerson et al.	—	—	
	5	5	9	1	6	6	9	01/07/97	Krimpenfort et al.	—	—	
	5	6	1	0	0	5	3	03/11/97	Chung et al.	—	—	
	5	6	2	5	0	4	8	04/29/97	Tsien et al.	—	—	
	5	6	3	9	6	1	8	06/17/97	Gay	—	—	
	5	6	4	3	7	4	1	07/01/97	Tsukamoto et al.	—	—	
	5	6	5	0	1	3	5	07/22/97	Contag et al.	—	—	
	5	6	6	5	5	5	7	09/09/97	Murray et al.	—	—	
	5	6	7	0	3	7	2	09/23/97	Hogan	—	—	
	5	7	5	0	3	7	6	05/12/98	Weiss et al.	—	—	
	5	7	6	7	2	5	8	06/16/98	Sidransky	—	—	
	5	7	7	7	0	7	9	07/07/98	Tsien et al.	—	—	
	5	8	2	1	2	3	4	10/13/98	Dzau	—	—	
	5	8	4	0	4	7	8	11/24/98	Patterson et al.	—	—	

## FOREIGN PATENT DOCUMENTS

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							YES	NO

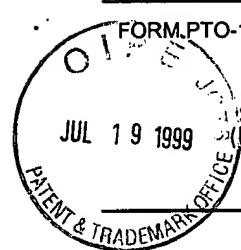
## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

JDW	3.	Birnstiel, Max L. et al., <i>Dangerous Liaisons: Spermatozoa as Natural Vectors for Foreign DNA?</i> , Cell, Vol. 57, pp. 701-702, (1989).
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APPLICANT R adhead et al.

FILING DATE April 15, 1999

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
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## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	TECH CENTER CLASS	SUB CLASS	Translation
				2900	2900	NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

IDM	4.	Blanchard, K.. T. et al., <i>Adenovirus-mediated gene transfer to rat testis in vivo</i> , Biol Reprod (1997 Feb); 56(2):495-500
	5.	Brinster, Ralph L., et al., <i>No Simple Solution for Making Transgenic Mice</i> , Cell, Vol. 59, pp. 239-241, Oct 20, 1989
	6.	Brinster, Ralph L. et al., Avarbock, <i>Germline transmission of donor haplotype following spermatogonial transplantation</i> , Proc. Natl. Acad. Sci. USA, Vol. 91 pp. 22303-22307, (Nov. 1994) Developmental Biology.
	7.	Brinster, Ralph L. et al., <i>Spermatogenesis following male germ-cell transplantation</i> , Proc. Natl. Acad. Sci USA, Vo. 91, pp. 11298-11302, (Nov. 1994), Developmental Biology.
	8.	Chen, Shu-Hsia et al., <i>Gene therapy for brain tumors: Regression of experimental gliomas by adenovirus-mediated gene transfer in vivo</i> , Proc. Natl. Acad. Sci, USA, Vol. 91, pp. 3054-3057, April 1994
	9.	Chung, J. H. et al., <i>A 5' element of the chicken beta-globin domain serves as an insulator in human erythroid cells and protects against position effect in Drosophila</i> , Cell, 74(3):505-14, Aug 13, 1993, ABSTRACT ONLY
	10.	Chung, J. H. et al., <i>Characterization of the chicken beta-globin insulator</i> , Proc. Natl. Acad. Sci. USA. 94(2):575-80, January 21, 1997, ABSTRACT ONLY
	11.	Clouthier, D. E. et al., <i>Rat spermatogenesis in mouse testis</i> , Nature, 381 (6581): 418-421 (May 30, 1996).
	12.	Curiel D. T., et al. <i>Adenovirus enhancement of transferrin-polylysine-mediated gene delivery</i> , Proc. Natl. Acad. Sci-USA, 88:8850-54(Oct. 1991).

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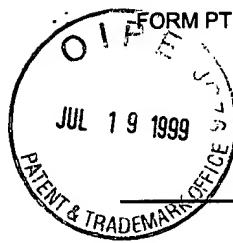
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*Joe Wontad* 12/27/01



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APPLICANT	Readhead et al.
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April 15, 1999      1632

## U.S. PATENT DOCUMENTS

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## FOREIGN PATENT DOCUMENTS

JUL 20 1998

		DOCUMENT NUMBER	DATE	COUNTRY	TECH CENTER	SUB CLASS	Translation
					1600	072900	YES NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

JDM	13.	Desdouets, C. et al, <i>Cyclin A: function and expression during cell proliferation,</i> <i>Prog Cell Cycle Res, 1:115-23, 1995, ABSTRACT ONLY</i>
	14.	Graberek & Gergely, <i>Zero-length cross-linking procedure with the use of active esters, Analyt. Biochem 185: 131-135 (1990).</i>
	15.	Hagstrom, K., et al., <i>Fab-7 functions as a chromatin domain boundary to ensure proper segment specification by the Drosophila bithorax complex, Genes Dev, 10(24):3202-15, Dec 15, 1996, ABSTRACT ONLY</i>
	16.	Horiguchi-Yamada, J., et al., <i>Changes of G1 cyclins, edk2, and cyclin A during the differentiation of HL60 cells induced by TPA, Mol Cell Biochem, 132(1):31-7, Mar 16, 1994, ABSTRACT ONLY</i>
	17.	Hovatta, Outi, et al., <i>Cryopreservation of human ovarian tissue using dimethylsulphoxide and propanediol-sucrose as cryoprotectants, Human Reproduction, Vol. 11, No. 6, pp. 1268-1272, (1996).</i>
	18.	Hovatta, Outi, et al., <i>Pregnancy resulting from intracytoplasmic injection of spermatozoa from a frozen-thawed testicular biopsy specimen, Human Reproduction, Vol. 11, No. 11, pp. 2472-2473, (1996).</i>
	19.	Jiang, F-X et al., <i>Male germ cell transplantation in rats: apparent synchronization of spermatogenesis between host and donor seminiferous, epithelia, International Journal of Andrology, vol. 18, pp. 326-330 (1995)</i>

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*Joe Wotach* 12/27/01



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Readhead et al.

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## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION
							YES NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

(Dm)	20.	Jiang, Fang-Xu et al., <i>Different fate of primordial germ cells and gonocytes following transplantation</i> , APMIS, Vol. 106, p. 58-63, (1998).
		Johnson L, et al., <i>Heterotoxic transplantation as a model to study the regulation of spermatogenesis; some histomorphological considerations about sperm decline in man</i> ; Contracept Fertil Sex 1997 Vol. 25(7-8), pp. 549-555, (1997)
	22.	Jones and Shenk, <i>An adenovirus type 5 early gene function regulates expression of other early viral genes</i> , Proc. Natl. Acad. Sci. USA, 76:(8)3665-3669 (1979)
		Kang, M. J. et al., <i>Cyclins and cyclin dependent kinases during cardiac development</i> , Mol Cells, 7(3):360-6, (June 30, 1997) ABSTRACT ONLY
	24.	Kim, Jin-Hoi et al., <i>Development of a Positive method for Male stem Cell-Mediated Gene Transfer in Mouse and Pig</i> , Molecular Reproduction and Development, Vol. 46, No. 4, pp. 515-526, (1997)
		Kim, V. Narry et al., <i>Minimal requirement for a Lentivirus Vector Based on Human Immunodeficiency Virus Type 1</i> , Journal of Virology, pp. 811-816, (Jan. 1998)
	26.	Langer, Robert S. et al., <i>Tissue Engineering: The obstacles to building new organs from cells and synthetic polymers are daunting but surmountable</i> The Challenges Ahead, Scientific American, pp. 86-89, April 1999

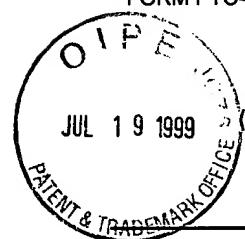
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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	Translation
							YES NO

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

JDM	27.	Lavitrano, Maria Luisa et al., <i>Sperm Cells as Vectors for Introducing foreign DNA Into Eggs: Genetic Transformation of Mice</i> , Cell, Vol. 57, pp. 717-723, (6/2/89)
		Mittereder et al., <i>Evaluation of the concentration and bioactivity of adenovirus vectors for gene therapy</i> , J. Virology, 70: 7498-7509 (1996)
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		Müller, C. et al., <i>Cyclin A1 promoter is trans-activated by the c-myb proto-onco gene</i> , Proc. of the Amer. Assoc. for Cancer Res, Vol. 39, Mar/Apr 1998 ABSTRACT 1742
	31.	Müller, C. et al., <i>SP1 Family Members Regulate Expression of the Tissue Specific Human Cyclin A1 Gene</i> , Blood Journal of the American society of Hematology, Americ. Soc. Of Hemat. 40th Annual Meeting, Dec 4-8, 1998 ABSTRACT 1534
		Müller, Carsten et al., <i>Cloning of the cyclin A1 Genomic Structure and Characterization of the Promoter Region</i> , The Journal of Biological Chemistry, Vol. 276, No. 16, pp. 11220-11228, Apr 16, 1998
	33.	Muramatsu T. et al., <i>Foreign gene expression in the mouse testis by localized in vivo gene transfer</i> , Biochem Biophys Res commun, 7;233(1):45-49 (Apr 1997)
		Nagano, M. et al., <i>Spermatogonial transplantation and reconstitution of donor cell spermatogenesis in recipient mice</i> , APMIS, 106, PP. 47-55, (1998)
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Readhead, et al

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April 15, 1999

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					JUL 20 1999		
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## FOREIGN PATENT DOCUMENTS

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							YES
							NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>JDW</i>	35.	Naito M, et al., <i>Production of germline chimeric chickens, with high transmission rate of donor-derived gametes, produced by transfer of primordial germ cells</i> , <i>Molecular Reprod Dev.</i> , 39(2):153-161 (Oct. 1994).
	36.	Naito M, et al., <i>Donor primordial germ cell-derived offspring from recipient germline chimaeric chickens: absence of long-term immune rejection and effects on sex ratios</i> , <i>Br Poult Sci</i> , 39(1):20-23 (Mar. 1998).
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		April 12, 1996
	38.	Ogawa, Takehiko et al., <i>Transplantation of testis germinal cells into mouse seminiferous tubules</i> , <i>Int. J. Dev. Biol.</i> , 41:222-122 (1997).
	39.	Ono T. et al., <i>Transfer of male or female primordial germ cells of quail into chick embryonic gonads</i> , <i>Exp Anim</i> , 45(4):347-352 (Oct. 1996).
	40.	Paterlini, P. et al., <i>Cylin A expression in human hematological malignancies: a new marker of cell proliferation</i> , <i>Cancer Res</i> , 53(2):235-8, (Jan 15, 1993) ABSTRACT ONLY
	41.	Pedersen, Roger A., <i>Cells for Medicine</i> , <i>Embryonic Stem Cells for Medicine</i> , <i>Scientific American</i> , pp. 68-73 (April 1999).
	42.	Perez-Cruet, M. J., et al., <i>Adenovirus-Mediated Gene Therapy of Experimental gliomas</i> , <i>Journal of Neuroscience Research</i> , Vol. 39, pp 506-511(1994). <i>meiotic cell cycles</i> , <i>Dev. Biol.</i> , 10:173(1):69-78, (Jan 10, 1996).

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*Joe Wartell 12/27/01*

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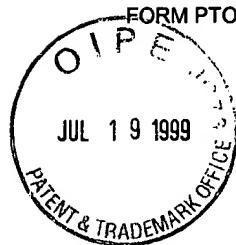
IDM	43.	Pikaart, Michael J., <i>Loss of transcriptional activity of a transgene is accompanied by DNA methylation and histone deacetylation and is prevented by insulators</i> , Genes & Development, 12:2852-2862, (1998).
		Ravnik, S. E. et al., <i>The developmentally restricted pattern of expression in the male germ line of a murine cyclin A, cyclin A2, suggests roles in both mitotic and meiotic cell cycles</i> , Dev. Biol., 10:173(1):69-78, (Jan 10, 1996). ABSTRACT ONLY
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	47.	Schmidt, Jerzy A. et al., <i>Control of Erythroid differentiation. Possible Role of the Transferrin cycle</i> , Cell, Vol. 46, 41-51 (Jul 4, 1986).
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Readhead et al.	

FILING DATE	GROUP	1632
March 19, 1999		

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					JUL 20 1998		
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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION
							YES NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

DM	51.	Wolffe, A. P., <i>Packaging principle: how DNA methylation and histone acetylation control the transcriptional activity of chromatin</i> , <i>J. Exp Zool</i> ,
		282(1-2):239-44 (Sep-Oct 1998). ABSTRACT ONLY
	52.	Yang, Rong et al., <i>Characterization of a Second Human Cyclin A That is Highly Expressed in Testis and in Several Leukemic Cell Lines</i> , <i>Cancer Research</i> ,
		57, pp. 913-920 (March 1, 1997).
	53.	PCT International Search Report
	53.	XP-002099974, J09220039, "Introducing Extraneous Gene Sperm Ovum Produce Transgenic Animal Comprise Introducing Extraneous Gene Liposome Complex Through Testicular Ovary Artery Sperm Testicular Ovum Ovary", Abstract Only.

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